

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: July 28, 1995

Date Received: July 25, 1995

Project: #7238, Mix Tank Hvy. Mtls., PO M70170

Date Samples Extracted: July 26, 1995

Date Extracts Analyzed: July 26, 1995

RESULTS FROM THE ANALYSIS OF THE SLUDGE SAMPLE FOR FINGERPRINT CHARACTERIZATION BY INDUCTIVELY COUPLED PLASMA (ICP) EMISSION SPECTROSCOPY

Samples Processed by Method 3050 Modified
Corrected for Dry Weight

Sample ID


ICP Characterization

The ICP emission spectroscopy trace showed the presence of the following metals at the approximate level indicated.


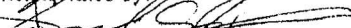
Aluminum (0.1%)	Nickel (4.2%)
Antimony (0.2%)	Palladium (<0.05%)
Arsenic (<0.05%)	Phosphorous (<0.05%)
Barium (<0.05%)	Platinum (<0.05%)
Beryllium (<0.05%)	Potassium (<0.05%)
Boron (<0.05%)	Rhenium (<0.05%)
Cadmium (<0.05%)	Selenium (<0.05%)
Calcium (0.2%)	Silicon (0.2%)
Chromium (6.0%)	Silver (<0.05%)
Cobalt (0.05%)	Sodium (0.2%)
Copper (3.6%)	Strontium (<0.05%)
Gold (<0.05%)	Thallium (<0.05%)
Iron (30%)	Tin (<0.05%)
Lead (<0.05%)	Titanium (0.9%)
Lithium (<0.05%)	Uranium (<0.05%)
Magnesium (<0.05%)	Vanadium (<0.05%)
Manganese (0.6%)	Yttrium (<0.05%)
Mercury (<0.05%)	Zinc (<0.05%)
Molybdenum (0.4%)	Zirconium (<0.05%)

SAMPLE CHAIN OF CUSTODY

BT13 ✓ BOC
BI
07.25.95
3:15

SITE NO.		PROJECT NAME		PURCHASE ORDER #	
7238		RE Mix tank Hwy mts		M 70170	
SAMPLERS (signature)				PROJECT LOCATION	
				RE 3200 6th Ave S.	
REMARKS				SAMPLE DISPOSAL INFORMATION	
				<input type="checkbox"/> Dispose after 30 days <input checked="" type="checkbox"/> Return Samples <input type="checkbox"/> Call for Instructions	

[illegible]

SIGNATURE	PRINT NAME	COMPANY	Date	Time
Relinquished by: 	GERALD Thompson	ACW	7-25-95	2:40 PM
Received by: 	C. DOWNING	FABI	7-25-95	2:20
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

DUPLICATE COPY

July 28, 1995

INVOICE # 95ACU0728-1

**Alaskan Copper Works
628 South Hanford
Seattle, WA 98134**

**RE: Project #7238, Mix Tank Hvy. Mtls., PO M70170: Results of testing
requested by Gerald Thompson, Project Leader for material submitted on
July 25, 1995.**

**1 sludge sample characterized by ICP Emission
Spectroscopy @ \$200 per sample**

\$ 200.00

Amount Due

\$ 200.00

FRIEDMAN & BRUYA, INC.

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July 28, 1995

**Gerald Thompson, Project Leader
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134**

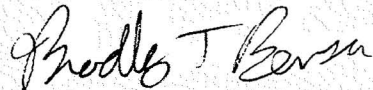
Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on July 25, 1995 from your project #7238, Mix Tank Hvy. Mtls., PO M70170.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



**Bradley T. Benson
Chemist**

**jdp
Enclosures**

ACU0728R

AKC-0012717